

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (currently amended) A process for recovering chlorine from chlorinator waste ~~including comprising~~ the steps of:

forming a single fluidized bed of chlorinator waste, wherein said chlorinator waste comprises a mixture of metal chlorides and carbon in a fluidizing gas containing oxygen; and treating the said chlorinator waste with oxygen in a single stage under conditions that ~~which~~ promote conversion of said metal chlorides into metal oxides and chlorine gas, and discourage oxidation of said carbon contained in the said chlorinator waste.

2. (cancelled)

3. (currently amended) A process according to claim 1 ~~2~~, wherein the temperature of the fluidized bed is maintained in a range from 400 to 700° C.

4. (currently amended) A process according to claim 1 ~~2~~, wherein the superficial velocity of the gas is maintained in a range from 0.2 to 1-2 meter/second.

5. (currently amended) A process according to claim 1 ~~2~~, wherein the stoichiometric ratio, R, is maintained in a range from 0.21 to 1.2.

6. (currently amended) A process according to claim 1 ~~2~~, wherein the temperature of the fluidized bed is maintained in a range from 550 to 650° C.

7.-11. (cancelled)

12. (currently amended) A process for recovering chlorine from a mixture containing a metal chlorides and carbon, the process ~~comprising: including~~ forming a single fluidized bed of the mixture in a fluidizing gas containing oxygen; and

converting the mixture in a single stage under conditions that which promote conversion of metal chlorides to metal oxides and chlorine gas, and discourage oxidation of carbon,

wherein the conditions which promote conversion of metal chlorides into metal oxides and discourage oxidation of carbon contained in the waste are obtained by controlling the superficial velocity of the fluidizing gas, the proportion of oxygen in the gas fed to the fluidized bed, oxygen to chlorinator waste feed ratio, temperature within the fluidized bed, either separately or in combination.
